Introduction

This guide provides an overview of the current release of HIFLD Roads and Routing data. These datasets are derived from HERE's File Geodatabase Plus (2019 Q1 release). They are intended for users unable to access dynamic basemaps, geocoding services, and routing services that are made available via the internet on the GII Portal. These datasets are static and available for download only; therefore, they may be more suited to disconnected environments and/or high volume routing and geocoding. Complete documentation from HERE is available in the **"Data Dictionaries and Other Resources"** download.

Software Requirements

- 7-Zip utility for unpacking compressed files (available for free download at https://www.7-zip.org)
- Desktop GIS software: Esri ArcMap or ArcGIS Pro
- *Routing only:* Esri's ArcGIS Network Analyst extension is **required** to use the routing functionality
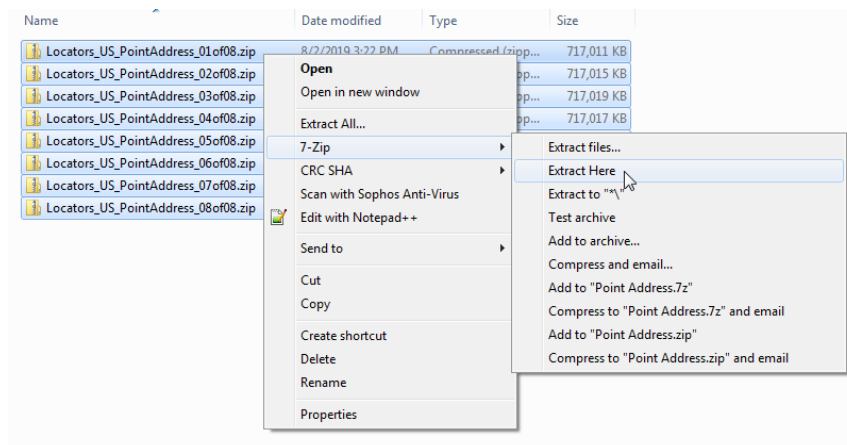
Download and 7-Zip Extraction Instructions

Due to download file size limitations, many of the datasets require multi-part downloads that must be "re-stitched" in order to extract the entire dataset. Any multi-part download will have a counter of the total number of pieces needed (i.e. 01 of x, 02 of x, etc.) You must **download ALL of the pieces** in order to properly extract the data.
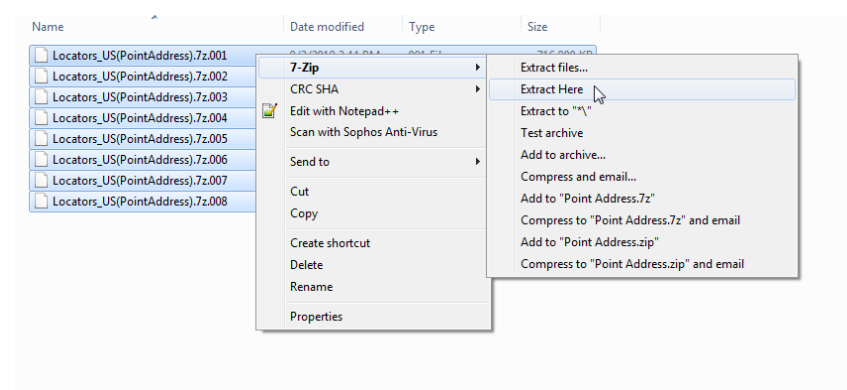
Example

The screenshots below show the 8 parts of the download for the USA Point Address Locator Files dataset.

1. Extract each downloaded .zip file (the files contained within it will have extensions like .7z.001, .7z.002, etc.)
2. Confirm that the number of .7z.0xx files correspond to the total number of parts listed. (In this example, 8 of 8.)
3. Extract the .7z files. 7-Zip will automatically "stitch" together the multiple parts into one extracted file.

Step 1: Extract .zip files

Step 3: Extract .7z multi-part files

Datasets

Locator Files for Geocoding

Locator files provide data needed to perform geocoding tasks. The locator datasets are split up by area of interest; for the USA, there are multiple locator types, some of which are split into multiple downloads. Locator types correspond to types of geodata, like street names, addresses, city names, or ZIP codes. The **Composite** locators will utilize multiple locator types in order to provide the best match, but note that the composite requires ALL of the underlying locators for that area for best results. In order for the composite locator to reference all its component locators, you must **place all locator files within one folder** on your computer.

USA (50 states) Locator types are grouped into 5 download packages, some with multiple parts. Download all packages for best results.	City Locator & Composite
	Point Address (8 parts)
	Street Name (3 parts)
	Streets (4 parts)
	ZIP Plus 4
Other Areas of Interest Generally, one download per area.	American Samoa, Bahamas, Bermuda, British Virgin Islands, Canada, Cayman Islands, Cuba, Dominican Republic, Guam, Haiti, Jamaica, Mexico (2 parts), Northern Mariana Islands, Puerto Rico, Turks and Caicos, US Virgin Islands

Routing

Full use of the routing application requires the ArcGIS Network Analyst extension. The 16 part download includes all necessary street data in order to perform routing. You do not need to download the individual state level Streets datasets in order for the routing application to function.

Base Data

To maximize download efficiency, some feature classes and related tables have been dropped from the HERE File Geodatabase Plus release. Within the data dictionary, you may find references to data not currently being made available for download from the GII Portal. Should you require any feature classes or related tables that are unavailable for download, please inquire via email to HIFLD@hq.dhs.gov for dissemination options.

Each dataset is a stand-alone file geodatabase. Relevant domains and relationship tables are included where possible. Consult the data dictionary for more guidance on each dataset's attributes, keys, and relations.

Points of Interest (POIs)

The Points of Interest dataset (6 part download) provides nationwide coverage and contains a wide variety of attributes for many types of point locations. A related feature class, Link, is included for visualizing the road network associated with points of interest. Related tables are included for additional contact information (phone numbers and URLs), alternate names, and street addresses.

POI – City contains point data representing the midpoint of administrative areas, zones, hamlets and neighborhoods.

Map Layers

Items in the Roads and Routing release with names prefixed by "Map" (e.g. Map Building Area, Map Water Link) provide nationwide base data layers.

Streets

For ease of download, the nationwide Streets layer has been segmented into state and territory level datasets. These datasets are intended for base data use only and are not necessary for routing and/or geocoding, nor do they replace the separate downloads listed above for those tasks.

For More Information

Please contact the HIFLD inbox at HIFLD@hq.dhs.gov if you have any questions or need additional assistance.